



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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DOGM
MINERALS PROGRAM
FILE COPY

May 24, 1989

Mr. Carl Dixon
Atlas Minerals
P.O. Box 1207
Moab, Utah 84532

Dear Mr. Dixon:

Re: Bond Re-evaluation, Snow Mine, M/015/013, and Four Corners Mine, M/015/014,
Emery County, Utah

The Division has completed the re-evaluation, of the reclamation surety, for the two mines mentioned above. The re-evaluation is based on the reclamation work recently performed on these two sites, and the actual disturbed acreage.

Our surety estimate for the Snow has been reduced from \$83,286 to \$22,000. For the Four Corners, the reduction is from \$137,775 to \$18,000 (please see the attached estimates).

If you are able to substantiate any further reduction for any of the estimated categories, please inform us. We can agree to reduce the bond further if, for instance, you can support an alternate cost for the demolition and disposal of the buildings on each site.

I am returning the aerial photo you supplied me with. Also please find attached a copy of the new acreage estimate for these two sites.

Please call if you have further questions.

Sincerely,

Holland Shepherd
Reclamation Soils Specialist

jb
Attachments
cc: L. Braxton
Joe E. Beirschied
MN5/105

Reclamation Estimate for the Atlas Four Corners Mine M/015/014

Prepared By
Utah State Division of Oil, Gas and Mining
May 23, 1989

Description	Quantity	Unit	\$/Unit	Total Cost (\$)
Facilities Reclamation				
Demolish and Dispose of Buildings	3,500	Square Feet	2.9	10,150
Plug and Cover Vent Hole (24 inch)		Lump Sum		2,000
Install Bulkhead 100 feet Inside Portal		Lump Sum		1,200
Backfill Decline to Bulkhead	600	Cubic Yards	0.60	360
Remove Trash	2	Acres	100	200
Grade for Uniformity	2	Acres	400	800
Revegetate	2	Acres	175	350
Subtotal				15,060
Completed Partial Reclamation *				
Revegetate	4.8	Acres	175	840
Totals				15,900
Add Contingency (10%)				1,590
TOTAL RECLAMATION COST (1989 Dollars)				17,490
TOTAL RECLAMATION COST (1991 Dollars) @ 1.93% Annual Inflation				18,000

Note: * Most of the area (4.8 acres) was reclaimed during 1988. The surety is estimated through 1991 (3 growing seasons).

Revegetation Cost per Acre	Quantity	Unit	\$/Unit	Total Cost (\$)
Bare Costs				
Seed Mix	19	Pounds	7.37	140
Application Costs				
Seed Mix (broadcast by hand)	0.5	Hours	24	12
Scarify (tractor with chain)	0.3	Hours	67	23
Subtotal				35
Total Revegetation Cost per Acre				175

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Snow Main Area

Region 1 (MAP SCALE: 1 inch= 2000 feet)

	AREA	total
CRES:	9.056	9.056
Q. MILES:	0.014	0.014
Q. YARDS:	43,830.223	43,830.223
Q. FEET:	394,472.000	394,472.000
Q. METERS:	36,647.648	36,647.648
Q. IN(map):	0.099	1.849

	PERIMETER	total
MILES:	0.701	0.701
YARDS:	1,232.965	1,232.965
FEET:	3,698.896	3,698.896
METERS:	1,127.368	1,127.368
INCH (map):	1.849	1.849

Snow Access Road

Region 2 (MAP SCALE: 1 inch= 2000 feet)

	AREA	total
CRES:	3.196	12.251
Q. MILES:	0.005	0.019
Q. YARDS:	15,466.444	59,296.668
Q. FEET:	139,198.000	533,670.000
Q. METERS:	12,931.918	49,579.566
Q. IN(map):	0.035	4.932

	PERIMETER	total
MILES:	1.168	1.868
YARDS:	2,055.020	3,287.985
FEET:	6,165.060	9,863.955
METERS:	1,879.019	3,006.387
INCH (map):	3.083	4.932

Region 3 (MAP SCALE: 1 inch= 2000 feet)

	AREA	total
CRES:	5.569	17.820
Q. MILES:	0.009	0.028
Q. YARDS:	26,953.111	86,249.781
Q. FEET:	242,578.000	776,248.000
Q. METERS:	22,536.234	72,115.797
Q. IN(map):	0.061	6.411

	PERIMETER	total
MILES:	0.560	2.428
YARDS:	986.143	4,274.128
FEET:	2,958.428	12,822.384
METERS:	901.685	3,908.072
INCH (map):	1.479	6.411

Four Corners

Region 4 (MAP SCALE: 1 inch= 2000 feet)

	AREA	total
CRES:	6.766	24.587
Q. MILES:	0.011	0.038
Q. YARDS:	32,749.555	118,999.336
Q. FEET:	294,746.000	1,070,994.000
Q. METERS:	27,382.801	99,498.594
Q. IN(map):	0.074	7.901

	PERIMETER	total
MILES:	0.564	2.993
YARDS:	993.520	5,267.647
FEET:	2,980.559	15,802.943
METERS:	908.430	4,816.502
INCH (map):	1.490	7.901